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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,091	11/13/2003	Kiyohisa Tateyama	245386US3	7290
22850	7590	04/01/2005	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			SCHILLING, RICHARD L	
			ART UNIT	PAPER NUMBER
			1752	
DATE MAILED: 04/01/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/706091

Applicant(s)

Tateyama et al

Examiner

RL Schilling

Group Art Unit

1752

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on 2-7-05
- ☐ This action is **FINAL**
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-13 is/are pending in the application.
- Of the above claim(s) 6-9, 12, 13 is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-5, 10, 11 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
- ☐ received in Application No. (Series Code/Serial Number) _____
- ☐ received in this national stage application from the International Bureau (PCT Rule 1 7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s): 5-18-04
- ☐ Interview Summary, PTO-413
- ☒ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Other _____

Office Action Summary

1. The requirement for restriction is repeated and made FINAL. The invention of the non-elected claims directed to patentably distinct methods and apparatus require further search and consideration from the examination of the elected claims.

2. Claims 1-5, 10 and 11 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention. There is no clear antecedent basis for the term "the component" in instant claims 1 and 10. In the specification, adjusting the alkaline concentration is accomplished by controlling solvent or alkali amount by adding solvent or solutions with concentrated alkali. Is "the component" referred to in claim 1 intended to refer to the alkali, the solvent or another component?

3. The prior art cited by applicants has been considered. Takeyama et al., Hashimoto et al. and Sakai et al. are cited of interest in the art as being U.S. equivalents to the cited Japanese publications. Nakagawa et al. '881 and Nakagawa et al. '545 are cited of interest in the art as disclosing development apparatus comprising photometers for measuring dissolved photoresists and alkali meters for measuring alkali concentration wherein the dissolved photoresist concentration and alkali concentration are controlled to be within predetermined values.

Serial No. 10/706,091

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Art Unit 1752

The instant claims distinguish over the two Nakagawa et al. patents by the step of or means for calculating an alkali concentration based on measured photoresist concentration for uniform development. The cited prior art does not disclose adjusting the alkali concentration for different photoresist concentrations to maintain uniform development. Tanaka et al. is cited of interest in the art as disclosing calculating pH based on the measured absorption values and conductivity values of developers.

4. Any inquiry concerning this communication should be directed to Mr. Schilling at telephone number (571) 272-1335.

RLSchilling:cdc

March 31, 2005

RECEIVED
PRIMARY EXAMINER
GROUP 4100-1752

